

Training of Tutors for Boarding-Schools, by I. I. Kolesnikov, 3 pp.

RUSSIAN, per, Sovet Pedagog, No 6, 1979, pp 62-66.

Internat'l Arts and  
Sci Press  
Vol I, No 10

USSR

Sci

Sep 79

96,526

Effect of Linear Dislocations on Carrier Recombina-  
tion in Hole Conducting Germanium, by M. Il  
Iglitsyn, L. I. Kolesnik, ~~243~~ pp 3 ~~pp~~

RUSSTAN, per, Fizika Tverdogo Tela, Vol 11, No 7,  
1960, pp ~~1540-1542~~ ~~pp~~ 1542-1544

Sci-  
Feb 61

AJP  
Sov Phys-Solid State  
Vol 11, No 7

140,826

Nonlinear Photoconductivity in Germanium,  
by L. I. Kolesnik, Yu. A. Kontsevoi, 6 pp.

RUSSIANF per, Fiz Tverdogo Tela, Vol VI, No 1,  
964, pp 164-172.

Amer Inst of Phys  
Sov Phys - Solid State  
Vol VI, No 1

Sci-  
Aug 64

265,382

Service of Magnesite-Chrome Refractories in  
the Roof of a High Temperature Tunnel Kiln, by  
V. P. Starum, M. I. Kolesnik.

RUSSIAN, per, Ogneupory, Vol XXIII, 1958, p 257.

C.S.I.R.O.

Sci-Engr

May 60

116,220

A New Disease of Horses and Man, by V. G. Drobot'ko,  
P. E. Morusenko, B. E. Aizenman, N. G. Kolesnik,  
D. G. Kabyai, P. D. Yatel', V. D. Mal' Kichenko.

RUSSIAN, per, Vrachbaeoe Delo, No 3-4, 1946,  
pp 125-128.

USDA

Scientific - Biology

DTS/DEX

10,6 477

Arithmetic Checking BCodes, by Ye. T. Mironchikov,  
D. Kolesnik, 8 pp.

RUSSIAN, per, Radiotekh i Elektronika, No 1, 1963.

IKKE

21

cc 63

244.025

Characterization of Experimental Erysipeloid in  
White Mice, by L. A. Timofeyeva, V. S. Kolesnik,  
V. Ia. Golovacheva, 9 p.

RUSSIAN, per, Zhur Mikrobiol Epidemiol i  
Immunobiolog, Vol XXX, No 2, 1959, pp 112-118.

PP

Sci  
Jan 60

105,948

**Momentary Salts of Acyl Substituted Acids. Infrared  
Spectra in the Region of Valence Oscillation of the  
CO<sub>2</sub> Group, by V. G. Moskov, M. A. Malozemik, 7 pp.**

**KHIMIA, per, Zhur Chelak Khim, Vol XXVIII, No 3,  
1962, pp 746-754.**

CS

Sci  
Apr 64

252, 1.0



Productivity of Buds on laterals, by  
Z. Kolesnik.

RUSSIAN, per, Sadovodstvo Vinogradarstvo i  
Vinodelie Moldaviy, no 3, 1957, pp 34, 35.

CSIRO/No 5780

Sci-Biol & Med Sci  
Mar 63

225,300

Study of Alteration in Petroleum Under Anaerobic  
Conditions Due to Pseudomonas, by E. A. Kolesnik,  
N. I. Shmonova, 3 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXV, No 6,  
1957, pp 1197-1198.

Amer Inst of Biol Sci

Sci - Med

May 58

69,580

V  
Formation of Incipient Inflorescences in the Spring, in  
by Z. V. Kolesnik, 7 pp.

RUSSIAN, no par, Vinodeliye i Vinogradstvo 8888,  
Vol XIII, No 8, 1953, pp 38-41.

Sci Tr Center RF-3751

Scientific - ~~Geophysics~~

36,124

Jan 56/dec

Biology

Carbochain Polymers and Copolymers, XIV,  
Copolymerization of Ethylene with Unsaturated  
Compounds in the Presence of Alkyl Boron Compounds,  
by N. S. Kolesnikov, A. P. Suprun, T. A. Soboleva,  
8 p.

RUSSIAN, per, Vysokomolekul. Soyedineniya, 1977,  
Vol I, No 4, pp 627-634.

SLA 60-10048

Sci  
Apr 60  
Vol III, No 3

112,086

(NY-5100/8)

Skill, not Numbers Count, by N. Kolesnik, 10 pp.RUSSIAN, per, <sup>2/</sup>Graindan Aviatsiya, No 4, 1961,  
pp 18-20.

JPRS 9674

USSR

Econ

Aug 61

162,851

Formation of Inflorescences in Grapevines  
(Vitis Vinifera L.) During Winter and Spring  
in Relation to Increased Fruit Yield, by  
Z. Kolesnik.

RUSSIAN, per, Botan Zhur, Vol XLIV, 1959,  
pp 1730-1734.

CSIRD/No 6189

Sci-Agri  
Aug 63

344518

Science Today and Tomorrow -- Is Reorganization  
Here Necessary? by Kolassnikov, Schwarz.

RUSSIAN, per mp, Izvestiya, 14 Oct 1959.

FBID Daily Review

USSR  
Econ  
Oct 59

99,564

Science Today and Tomorrow -- Is Reorganization  
Here Necessary?", by Kolesnikov, Schwarz.

RUSSIAN, ~~xxx~~ np, Investiya, 14 Oct 1959.

FBID Daily Review

USSR

Econ

Oct 59



On the Possible Development of the Theory of  
Dislocations, by Arkharov, Kolesnikov, Orlov.

RUSSIAN, thrice-mo per, Dok Ak Naŭk, SSSR, Vol XCII,  
No 4, p 751.

REF 212

Scientific - Physics

CTB/DEX

9587

Feasibility of Obtaining a Population Inversion in a Doped Semiconductor. E. Finkelshteyn, by A. A. Kolesnikov, Z. L. Gur'yeva. RUSSIAN, per. in VUZ. Fiz. No 2, 1964, pp 22-27. Dept of Navy Tr 62007, NPL No T-1251

Sci - Elec  
Aug 65

267,314

Kuznetsov, A. A.

Possibility of Changing a Population Inversion in a  
Doped Semiconductor, by A. A. Kolesnikov,  
Z. I. Ushakov, 6 pp. FOR OFFICIAL USE ONLY  
RUSSIAN, Doc. In Ushakov Zvezd. Fiz. 1964,  
pp 23-27. 9004002  
FSTC 381-T64-135

Sci - Phys  
May65

179,575

*Kolesnikov, A. A.*

Calibration of Vibration Probes for Measuring  
Machine Vibrations, by A. X. Novilov,  
A. E. Kolesnikov, B. Sh. Masharskiy, 3 pp.

RUSSIAN, per, Izmeritel Tekh, No 2, 1958,  
pp 32-34.

Instra Soc of Amer

Sci

Apr 60

113,080

New Slip Planes in Zinc, by A. F. Kolesnikov, 50 pp.

RUSSIAN, per, Zhur Eksper i Teor Fiz, Vol VIII,  
No 8-9, 1938.

CIA/PDD XX-1651  
NO FOREIGN DISSEM

Sci

Jan 65

ISIB Internal Use Only

271,430

ers Instrumental Determination of Energy Transmitted by  
Normal Wind Pressure to the Surface of Sea Waves, by  
A. G. Kolesnikov, G. E. Kononkova, 6 pp.

1961, RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz, No 10, 1  
pp. 1551 - 1559.

ACU

192,538

Sci

May 62

Vertical Turbulent Exchange in a Stably Stratified  
Sea, by A. G. Kolesnikov, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz,  
No 11, 1960, pp 1614-1623.

AGU

Sci

15/111

May 61

Equipment and Methods Used in Recording Turbulent  
Microfluctuations of the Temperature and Current  
Velocities in the Sea, by A. G. Kolesnikov,  
N. A. Pantelayev, Yu. G. Pykin, V. P. Petrov,  
6 pp.

RUSSIAN, per, in Ak Nauk SSSR, Ser Geofiz, No 3,  
1978, pp 407-413.

Amer Geophys Union

Oct 99

99,365



Calculation of the Displacement of the  
Crystallization Front in a Supercooled Cloud  
Subjected to the Action of Solid Carbon Dioxide,  
by A. G. Kolesnikov, V. I. Belyayev, 3 pp.

RUSSIAN, I. F., Dok Ak Nauk SSSR, Vol CXXXIII, No 1,  
1960, pp 835-837.

AGI

183,871

Sci

Aug 61

On Crystallization of a Super-Cooled Water Cloud  
by the Freezing of Droplets, by A. G. Kolesnikov,  
V. I. Belyayev, 4 pp.

RUSSIAN, par, Iz Ak Nauk SSSR, Ser Geofiz, No 5,  
1958, pp 636-642.

AGU

Sci - Geophys  
Oct 59

99,990

Diurnal Variations of Water Temperatures in  
Storage Reservoirs and the Melting Away Rate  
of the Ice-Cover, Taking Place on its Lower  
Surface During the Spring Period, by A. G.  
Kolesnikov and A. A. Speranskaya, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz,  
No 12, 1958, pp 1463-1469.

Amer Geophys Union

Sci

Feb 60

106,675

Calculation of the ~~Supercooling~~ Process of  
Crystallization of Supercooled Water During Turbulent  
Mixing, by A. G. Kolesnikov, V. I. Belyayev, 15 pp.  
UNCLASSIFIED

RUSSIAN, no per, Iz Ak Nauk SSSR, Ser Geofiz, No 11,  
1956, pp 1322-1331.

US JPRS/NI-L-151

Sci - Geophysics  
Jun 58

64,405

On the Growth Rate of Sea Ice, 14 pp, by A. G. Kolesnikov

RUSSIAN, Rpt to the Intl Conf on the Study of Sea Ice, Washington, D. C., 1958.

CIA/VID X-2767

Sci - Geophys

Mar 58

60,143

The Crystallisation of Supercooled Water Subject  
to Turbulent Mixing, by A. G. Kolesnikov, V. I.  
Bak Belyayev, 6 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CIX, No 6,  
1956, pp 1129-1132.

Assoc Tech Serv

Sci - Phys

Jul 58

67,175

A Device for Determining Heat-Flows, by A. G.  
Kolesnikov and A. A. Speranskaya, 13 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geofiz, No 11,  
1958, pp 1351-1359.

Amer Geophys Union

Sci

Jan 60

106,823

(FDD 24385)

On the Calculation of the Annual Course of  
Water Temperature in the Southern Seas, by  
A. G. Kolesnikov, 23 pp.

RUSSIAN, bk, Trudy Morskogo Gidrofizicheskogo Instituta,  
Vol III, Moscow, 1955, pp 168-187.

CIA/PED 7- 418

24,832

USSR

Sci - Geophysics, Physics, hydrology CTS 68/May 75



Magnetic Properties of  $\text{MgO}$ , by L. L. Korenblit,  
A. P. Kolesnikov, 4 pp.

RUSSIAN, no per, Zhur Tekh Fiz, 1956, Vol XXVI,  
No 5, 1956, pp 941-944.

American Inst of Physics  
Vol I, No 5, Soviet Physics  
Technical Physics

Sci - Physics  
Jun 57

48,355

Study of Nucleic Acids in Plants, by A. V. Kolesnikov.

RUSSIAN, per, Vestn Ak Nauk, Vol XXIX, No 3, 1959,  
pp 130-132. OZA 047298

USDA

Sci - Biology  
Mar 60

110,259

THE PRIKHANKAYSKAYA PLAIN AND THE ADJOINING REGIONS  
OF PRIMORSKIY KRAY, BY B. P. KOLESNIKOV, G. D.  
RIKHTER, V. V. NIKOL'SKAYA, 105 PP.

RUSSIAN, ~~MA~~, MATERIALY PO FIZ GEOGRAFIY YUGA  
DAL'NEGO VOSTOKA, 1958, PP 179-268, CALL NO. GB239  
P99.U58. *English Trans.*

ARMY MAP SERVICE

USSR

GEO

13 AUG 62

206,255

Stratigraphy of Mesozoic Continental Deposits in the  
Buryat ASSR (Western Transbaykal Region), by  
Ch. M. Kolesnikov, 12 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Ser Geol, No 4,  
1961.

AGU

Sci

Scep 62

210,351

**Parasomaria of the Fruit of the Parusip  
Parusip Series I, by H. P. Hingstman, D. E.  
Haleman, & 39.**

**HEMSTAN, par, Det At East 2000, Vol. CIV, No 6,  
1999, no 1999-1999.**

**Amor East of East Sci**

**Sci - Mel**

**Dep 79**

*96,058*

Investigation of the Furcoumarins of Cultivated  
Paramps, by N. P. Makayutina, D. G. Kolesnikov,  
4 pp.

RUSSIAN, per, Zhur Obshch Khim, Vol XXX, No 11,  
1999, pp 3836-3839.

CB

Sci  
Nov 60

132, 719

Xanthotoxin from the Fruits of the Cultivated Paranip,  
by N. P. Maksyutina, D. G. Kolesnikov, App.

RUSSIAN, per, Zhur Obshch Khim, Vol XXXI, No 4, 1961,  
pp. 1386 - 1388

CB

196, 727

Sci

Apr 62

Olitorin--A New Cardiac Glycoside From the Long-Iod  
Jute (*Corchorus Olitorius* L.), by V. T. Chernobai,  
D. G. Kolesnikov, 4 pp.

RUSSIAN, per, Dok Ak Nauk SSSR, Vol CXXVII, No 3,  
pp 586-588.

CB

Sci  
Aug 60

126,400



**Spectrographic Investigation of Cardiac Glycosides  
From Mollusks, by M. Ya. Frepp, Ya. V. Shostakov,  
D. G. Kolesnikov, 4 pp.**

**Full translation.**

**RUSSIAN, no par, Zhur Obshch Khim, Vol XXIII, No 8,  
1953, pp 1421-1425.**

**Scientific - Chemistry  
Dec 54 CTS/DEX**

**Consultants Bureau**

**20,103**

The Methods of Studying the Growth of Absorbing  
Roots of Fruit Trees, by E. V. Kaloshnikov.

RUSSIAN, for, in Moscow Selshchikov Ak , No 6,  
1957, pp 51-60.

REF-480

Sci  
Jul 63

Biocurrents From Tape Recorder, by G. F. Kolesnikov.

RUSSIAN, np, Soverskaya Molodezh, 17 Jul 1962, p 4.

\*FTD-TT-62-1553

Sci - Elect, Electron

2 Nov 62

# 13

(NY 1910).

Shear and Diffusion Plasticity in the Process of  
Relaxation of Stresses, by G. N. Kolesnikov,  
A. I. Moiseyev.

RUSSIAN, bk, Trudy Instituta Fiziki Metallov --  
Voprosy Teorii Zharoprochnosti Metallicheskih  
Splavov, No 4, 1958, pp 101-121.

JPRS 5024

Sci - Min/Met

11 Apr 60

On Uniqueness of Physical Explanation of the Slope of  
Stress Relaxation Curves, by G. N. Kolesnikov,  
A. I. Moiseyev, 3 pp.

RUSSIAN, per, Fiz Metal i Metallov, Vol IX,  
No 1, 1960, pp 100-102.

PA

156,216

Sci

Jun 61

#13

(NY 3910).

The Effect of Phase Transformation on Relaxation  
of Stresses, by G. N. Kolesnikov, A. I. Moiseyev.

RUSSIAN, bk, Trudy Instituta Fiziki Metallov --  
Voprosy Teorii Zharoprochnosti Metallicheskih  
Splavov, No 4, 1958, pp 127-132.

JPRS 5024

Sci - Min/Met

11 Apr 60

(NY-3904/1).

Effect of Small Admixtures of Alloying Elements  
on the Relaxation of Stresses in Iron-Chromium-  
Nickel Alloys, by G. N. Kolesnikov, A. I.  
Moiseyev, M. V. Yakutovich, 6 pp.

RUSSIAN, per, Trudy Instituta Fiziki Metallov,  
No 19, 1958, pp 95-100.

JPRS-1947-N

Sci - Min/Met  
Oct 59

99,440

Carbon-Chain XX Polymers and Copolymers. Commun-  
ication 48. Synthesis of Graft Copolymers With  
Various Frequencies of Grafting of Side Chains of  
Various Lengths, by G. S. Kolesnikov, G. T.  
Gurgenidze, 5 pp.

RUSSIAN, per, Iz Ak Nauk, SSSR, Otdel Khim Nauk,  
No 5, 1962, pp 897-901.

03

Sci  
Jan 63

22 232,632



Synthesis of Unsaturated Polyamides and  
Polyesters by Polycondensation at the Phase  
Interface, by G. S. Kolesnikov, A. S.  
Maloshitskiy, 3 pp.

RUSSIAN, per, Vysokomolekulyarnyye Soyedineniya,  
Vol II, No 7, 1960, pp 1119-1121.

ATB-06145R

Sci

203,214

Jun 62

Carbon-Chain Polymers and Copolymers.  
Communication 48. Synthesis of Graft  
Copolymers with Various Frequencies of  
Grafting of Side Chains of Various Lengths,  
by G.S. Kolesnikov, G.T. Gurgensidze, 5 pp.

RUSSIAN, per, Is Ak Nauk SSSR, Otdel Khim  
Nauk, No 5, 1962, pp 897-901.

CB

Sci

Mar 63

222, 517

Koleanikov, G. S., Rodionova, E. P., and Fedorova,  
L. S.

SYNTHESIS, POLYMERIZATION, AND COPOLYMERI-  
ZATION OF ESTERS OF VINYLPHOSPHONIC ACID.  
[1962] 8p.

Order from ATS \$9.85

ATS-02P66R

Trans. of mono. Khim[ya] i Primenenie Fosfororgan-  
[icheskikh] Soedin[enii] (Akad. Nauk SSSR, Kazansk.  
Filial, tr. Konf. (no. 2) 1959) [Moscow] 1962,  
p. 255-262.

A complete trans. of mono. is available from OTS or  
SLA \$38.50 as 62-33349, JPRS-15432, 25 Sep 62  
[1160]p.

DESCRIPTORS: \*Phosphonic acids, \*Vinyl radicals,  
Synthesis, Polymerization.

(Chemistry--Organic, TT, v. 9, no. 5)

63-12461

- I. Koleanikov, G. S.
- II. Rodionova, E. P.
- III. Fedorova, L. S.
- IV. ATS-02P66R
- V. Associated Technical  
Services, Inc.,  
East Orange, N. J.

C227959

Office of Technical Services

Carbon-Chain Polymers and Copolymers,  
Part 23. Copolymerization of Diallyl Deriva-  
tives of Germanium, Tin, and Silicon With  
Styrene and Methyl Methacrylate in the  
Presence of Benzoyl Peroxide, by G. S.  
Kolesnikov, S. L. Davydova.

RUSSIAN, par, Vysokomolekulyarnyye  
Soyed, Vol II, No 4, 1960, pp 567-571.

AMS-31142R

192, 640

Sci

Vol IV, No 7

Kolesnikov, G. S., Rodionova, E. F., and Fedorova,  
L. S.  
CARBON-CHAIN POLYMERS AND COPOLYMERS.  
XI. SYNTHESIS, POLYMERIZATION AND COPOLY-  
MERIZATION OF ESTERS OF VINYLPHOSPHONIC  
ACID. [1961] 6p.  
Order from ATS \$11.65

ATS-57N56R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)  
1959, v. 1, no. 3, p. 367-372.  
Another trans. is available from OTS or SLA \$1.60 as  
61-18631 [1961] 12p.

DESCRIPTORS: \*Polymers, Synthesis, Molecular  
structure, Polymerization, \*Phosphonic acids, Copoly-  
merization, Esters, \*Vinyl radicals (Phosphonic).

(Chemistry--Organic, TT, v. 7, no. 3)

62-12157

- I. Kolesnikov, G. S.
- II. Rodionova, E. F.
- III. Fedorova, L. S.
- IV. ATS-57N56R
- V. Associated Technical  
Services, Inc., East  
Orange, N. J.

187486

Office of Technical Services

Graft polymers, By G. S. Kolesnikov, Tseng Han-Ming.  
pp. 14

RUSSIAN, per, Uspekhi Khim, No 9, 1962, pp. 1025-1045,

CS

Sci

341, 117

Jun 63

Synthesis, Polymerization and Copolymerization of  
1, 1-Dichloro-2-Fluoroethylene, 1-Chloro-2-Fluoro-  
Ethylene, 1, 1-Dibromo-2-Fluoroethylene and  
1-Bromo-2-Fluoroethylene, by G. S. Kolesnikov,  
M. G. Avetyan.

RUSSIAN, per, Iz Ak Nauk Armyanskoy SSR, Vol XI,  
No 3, 1958, pp 201-209.

MLL N. 3430

Sci - Chem

194, 024

Apr 62

Carbon Chain Polymers and Copolymers 9th  
Report. Synthesis and Properties of Vinyl-  
dene Chloride Copolymers With Acrylonitrile  
and Methyl Methacrylate, by G. B. Kolesnikov,  
L. S. Fedorova. UNCL

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim  
Nauk, No 4, 1959, pp 731-735.

DSIR LII M.1452

(loan)

116,514

Sci - Chem  
May 60



Carbon-Chain Polymers and Copolymers. 5.  
Copolymerization of Acrylonitrile and Methyl  
Methacrylate in the Presence of Tributylborane,  
by G. S. Kolesnikov, N. V. Alimontova, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim. Nauk,  
No 11, 1958, pp 1383-1387.

Consultants Bureau

Sci

Apr 60

113,648

Synthesis of Polyarylenealkyls, 9. Synthesis and  
Transacetylation of Monofluoro- and Monochloro-  
diphenylmethanes, by G. S. Kolesnikov, V. V.  
Korchuk, T. V. Smirnova, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 9, 1968, pp 1123-1126.

Consultants Bureau

Sci

Apr 69

112,164

Synthesis of Polyalkylacryls. Communication 1.  
Polycondensation of Methylene Chloride with  
Halobenzenes, by G.S. Kolesnikov, V.V. Koshak,  
T.V. Smirnova, 4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk.  
No 12, 1957, pp 1476-1481

Consultants Bureau

Sci - Chem

May 59

86,987

**Synthesis of Polyalkylacryls. Communication****8. Transarylation of Diphenylmethane, by****G. S. Kolesnikov, V. V. Korshak, T. V.****~~Saitovsk~~, 4 pp.****RUSSIAN, per, In Ak Nauk SSSR, (Izdel Khim Nauk,  
No 6, 1958, pp 767-770.****Consultant: Bureau****Sci****Apr 60****112,264**

Macromolecular Compounds. Communication 99.  
Polycondensation of Dichloromethane with Benzene,  
by G. S. Kolesnikov, V. V. Korshak, <sup>(11)</sup> V. Smirnova,  
8 pp.

RUSSIAN, per, Is Ak Nauk SSSR, Otdel Khim Nauk,  
No 3, 1957, pp 378-388  
378

Consultants Bureau

Sci - Chem

86,851

May 99

*mer*  
Carbon-Chain Polymers and Copolymers, Communica-  
tion 1, Synthesis and Polymerization of p-  
Alkoxybenzenes, by G. S. Kolesnikov, G. M.  
Pogosyan, 5 pp.

①  
RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1958, pp 227-231.

Consultants Bureau

Sci - Chem

May 59

86,895

Kolesnikov, G. S. and Klimentova, N. V.  
CARBON CHAIN POLYMERS AND COPOLYMERS. X.  
BLOCK POLYMERIZATION OF METHYLMETHACRY-  
LATE IN THE PRESENCE OF TRIBUTYLBORON.  
May 61 (12)p. 3 refs. Technical notes PRL-TN-48;  
AD-256 286.

Order from OTS or SLA \$1.60

61-19779

Trans. of Vysokomolekulyarnye Soedineniya (USSR)  
1959, v. 1, no. 3, p. 362-366.

DESCRIPTORS: \*Polymers, Synthesis, Molecular struc-  
ture. \*Acrylic resins, Polymerization, Methyl radicals.

The kinetics of block polymerization of methylmethacry-  
late in the presence of tributylboron was studied, and  
the effect of temperature and catalyst concentration on  
the polymerization rate and on the molecular weight of  
polymethylmethacrylate elucidated. (Author)

(Chemistry--Organic, TT, v. 6, no. 6)

61-19779

- I. Kolesnikov, G. S.
- II. Klimentova, N. V.
- III. Title: Block...
- IV. PRL TN-48
- V. Feltman Research Labs.,  
Picatinny Arsenal,  
Dover, N. J.
- VI. Joint Publications Research  
Service, New York
- VII. AD-256 286

Office of Technical Services

Kolesnikov, G. S., Saprun, A. P. and others.  
CARBON CHAIN POLYMERS AND COPOLYMERS  
XOL COPOLYMERS BASED ON BICYCLO(2.2.1)  
HEPTA-2,5-DIENE AND 1,2,3,4,7,7-HEXACHLORO-  
BICYCLO(2.2.1)HEPTA-2,5-DIENE. [1961] 5p.  
Order from ATS \$6.75      ATS-19452R

Trans. of Vysokomolekulyarnye Soedineniya (USSR)  
1960, v. 2, no. 3, p. 451-455.

DESCRIPTORS: Polymerization, Copolymerization,  
Condensation reaction, Polymers, Cyclic compounds,  
Chlorine compounds

(Chemistry--Organic, TT, v. 6, no. 4)

61-22906

- I. Kolesnikov, G. S.
- II. Saprun, A. P.
- III. Title: Copolymers ...
- IV. ATS-19452R
- V. Associated Technical  
Services, Inc., East  
Orange, N. J.

Office of Technical Services



Kolesnikov, G. S., and Tazeev, Khan-mia.  
**CARBON-CHAIN POLYMERS AND COPOLYMERS.**  
**XXVIII. PREPARATION OF GRAFT COPOLYMERS**  
**BY THE REACTION OF POLYMETHYL METHACRY-**  
**LATE) AND POLY(ETHYLENE AZELATE). [1960]**  
 6p.

Order from ATS \$8.00

ATS-13N49R

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)  
 1960, v. 2, no. 11, p. 1717-1721.

(Chemistry--Organic, TT, v. 5, no. 8)

61-12764

1. Polymers--Synthesis
2. Copolymerization--Analysis
3. Acrylates--Polymerization
4. Ethylenes--Polymerization
5. Title: Graft copolymers
- I. Kolesnikov, G. S.
- II. Tazeev, Khan-mia
- III. ATS-13N49R
- IV. Title: Preparation...
- V. Associated Technical  
 Services, Inc.,  
 East Orange, N. J.

Office of Technical Services

Kolesnikov, G. S., Davydova, S. L., and  
Yermolayeva, T. I.

CARBOCHAIN POLYMERS AND COPOLYMERS. XVII.  
POLIMERISATION OF DIALLYL DERIVATIVES OF  
SILICON AND GERMANIUM (Karboksepyye Polimery  
i Sopolimery. XVII. Polimerizatsiya Diallilnykh  
Proyvodnykh Kremniya i Germaniya). [1960] 4p.  
8 refs. M. 2207.

Order from LC or SLA m\$1.80, ps\$1.80 61-13702

Trans. of Vysokomolekulyarnyye Soyedineniya (USSR)  
1959, v. 1, no. 10, p. 1493-1495.

Diallyl derivatives of silicon and germanium in pres-  
ence of triethylaluminum and titanium tetrachloride  
yield low molecular weight polymers. A structure is  
proposed for the products obtained.

(Chemistry--Organic, TT, v. 5, no. 2)

61-13702

1. Allyl compounds--  
Polymerization
2. Silicon compounds  
(Organic)--Polymerization
3. Germanium compounds  
(Organic)--Polymerization
- I. Kolesnikov, G. S.
- II. Davydova, S. L.
- III. Yermolayeva, T. I.
- IV. Title: Polymerization...
- V. DSIR LLU M. 2207

Office of Technical Services

Kolesnikov, G. S. and [Pedorova, L. S.].  
CARBOCHAIN POLYMERS AND COPOLYMERS. XII.  
EMULSION POLYMERIZATION OF VINYL COM-  
POUNDS IN THE PRESENCE OF TRIBUTYLBORON.  
[1960] 8p. 6 refs.  
Order from SLA m\$1.00, ph\$1.00 60-18428

Trans. of [Vysokomolekulyarnyye Soyedineniya] (USSR)  
1959, v. 1 [no. 8] p. 1266-1269.

It was shown that the polymerization of acrylonitrile in emulsion and with the use of tributylboron as a catalyst takes place only in the presence of oxygen or an oxygen donor, for example hydrogen peroxide. Methylmethacrylate and styrene polymerize in the absence of oxygen with diminished yields below those in the presence of oxygen. The formation of compounds of a peroxide nature was shown qualitatively in emulsion polymerization of acrylonitrile in the presence of tributylboron and oxygen of the air and assumptions were made concerning their structure. A study was made of (Chemistry--Organic, TT, v. 5, no. 3) (over)

60-18428

1. Boron compounds (Organic)--  
Chemical reactions
2. Vinyl polymers--Synthesis  
I. Kolesnikov, G. S.  
II. Pedorova, L. S.  
III. Title: Emulsion...

Office of Technical Services

Carbon Chain Polymers and Copolymers. XIV, Copolymerization of Ethylene With Unsaturated Compounds in the Presence of Alkyl Compounds of Boron, by G. S. Kolesnikov.

RUSSIAN, per, Vysokomol Soedineniya, Vol I, No 4, 1959, pp 627-634.

ATB RJ-2132

Sci - Chem

May 60

115, 418

Polymerisation of Unconjugated dienes, by G. S.  
Koleanikov, S. L. Davydova, 5 pp.

RUSSIAK, per Uspekhi Khim, Vol XXIX, No 12, 1960,  
pp 1474-1486.

Cleaver-Hume Press

Sci

Aug 61

164, 225

Carbon Chain Polymers and Copolymers. VIII.  
Solution Polymerization of Styrene and Methyl  
Methacrylate in the Presence of Tributylboron,  
by G. S. Kolesnikov,

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 4, 1959, pp 727-730.

ATB RJ-2131

Sci - Chem

May 60

115,417

Synthesis of Polyalkylacryls. Communication  
10. Degradation of Polyethylene(Chlorophenyl)  
with Chlorobenzene and Benzene, by G. S.  
Kolesnikov, L. S. Fedorova, 4 pp.

RUSSIAN, per, Iz, Ak Nauk SSSR, Otdel Khim  
Nauk, No 1, 1959, pp 144-147.

Consultants Bureau

Sci - Chem

Apr 60

113,196

Carbon-Chain Polymers and Copolymers. Communication 49.  
Graft Copolymers of the Methacrylate of the Polyester  
from 7-Hydroxyheptanoic Acid with Triethyltin Metha-  
crylate or Triethylgermanium Methacrylate, by G.S.  
Kolesnikov and G.T. Gurgendze, 5 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk, No 7,  
1962, pp. 1275-1279.

CB

Sci

340,966

May 63



Carbon-Chain Polymers and Copolymers. Communication  
6. Synthesis and Polymerization of 1,1-Dichloro-  
2-fluoroethylene, by G. S. Kolesnikov, M. G.  
Avetyan, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1959, pp 331-351.

Consultants Bureau

Sci - Chem

Apr 60

113,227

Carbon-Chain Polymers and Copolymers. Communication  
7. Kinetics of the Polymerization of Alkoxystyrenes,  
by G. S. Kolesnikov, O. M. Pogosyan, 3 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, 1959, pp 335-337.

Consultants Bureau

Sci - Chem

Apr 60

113,228

Carbon Chain Polymers and Copolymers, VIII,  
Solution Polymerization of Styrene and Methyl  
Methacrylate in the Presence of Tributylboron; by  
G. S. Kolesnikov, N. V. Klimashova, T. I.  
Yermolayeva, 5 p.

RUSSIAN, per, In Ak Nauk SSSR, Otdel Khim Nauk,  
1959, No 4, pp 727-730.

AMS-8XL3XR

Sci  
May 60  
Vol 3, No 4

116,775

Synthesis of Polyalkylacryls. Communication 7.  
Copolycondensation in the Systems 1,2-  
Dichloroethane-Benzene-Fluorobenzene; and 1,2-  
Dichloroethane-Chlorobenzene-Fluorobenzene,  
by G. S. Kolesnikov, V. V. Koshak, A. P. Suprun,  
4 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 6, 1958, pp 763-766.

Consultants Bureau

Sci

112,262

Apr 60

8) thesis of Polyalkylacryls. Communication 6.  
Effec. of the Relative Amounts of Reagents on  
the Course of the Copolycondensation of Benzene and  
Chlorobenzene with 1,2-Dichloroethane, by G. H.  
Kolomoichov, V. V. Korshak, A. P. Sargin, 8 pp.

RUSSIAN, par, in Ak Nauk SSSR, Otdel Khim Nauk,  
No 5, 1958, pp 605-613.

Consultants Bureau

Sci - Chem

Apr 60

112, 2 71

Apr 60

Synthesis of Polyalkylacrylate. Communication 4.  
Effect of Temperature on the Course of the  
Copolycondensation of Benzene and Chlorobenzene  
with 1,2-Dichloroethane, by G. S. Kolesnikov,  
V. V. Korshak, A. P. Suprun, 6 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 4, 1958, pp 495-497.

Consultants Bureau

Sci - Chem

Apr 60

112,291

(NY-3139).

Formation of Scientific Bases of the Chemistry of  
Polymers, by G. S. Kolesnikov, 10 pp.

RUSSIAN, per, Vest Ak Nauk SSSR, No 9, Sep 1959,  
pp 69-72.

JPRS-L-1192-N

Sci - Chem  
Feb 60

107,701

Carbon-Chain Polymers and Copolymers. Part XIII.  
Synthesis and Polymerization of Some Unsaturated  
Compounds Containing Group IV Elements, by G. S.  
Kolesnikov, S. L. Davydov.

RUSSIAN, per, Zhur Obshch Khim, Vol XXIX, No 6,  
1959, pp 2042-2045.

ATS RJ-1849

Sci - Chem

105,058

Jan 60



Chain Polymers and Co-Polymers (Carbonaceous)  
Rept 5. The Co-Polymerization of Acrylonitrile and  
Methyl Methacrylate in the Presence of Tri-Butyl  
Boron, by G. S. Kolesnikov, N. V. Klimentov, 9 pp.

RUSSIAN, per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 11, 1958, pp 1383-1387.

SLA 59-15260

Sci - Chem  
Sep 59  
Vol 2, No 2

97,982

Macromolecular Compounds. Communication 85.  
Polycondensation of 1,2-Dichloroethane with  
o-Dichlorobenzene, by G. S. Kolesnikov, V. V.  
Korshak, 6 pp.

RUSSIAN, also pub in Abstr USSR, Chem Edn,  
Book, No 6, Nov/Dec 1977, pp 1100-1106,  
CIA 54276, C, reel 3.

Consultants Bureau

Sci - Chemistry

37,646

Aug 1956

Tetrasthyllacid, by V. V. Korschak, G. S.  
Kolesnikov, 35 p.

RUSSIAN, per, Uspekhi Khimii, 1946, Vol XV, No 3,  
pp 326-342.

SLA 59-17242

Sci  
Dec 59  
Vol 2, No 6

103, 944

Macromolecular Compounds. Communication 84.  
Polycondensation of 1,2-Dichloroethane With  
Toluene, by G. S. Mironov, V. V. Kurchak,  
T. A. Soboleva, 4 pp.

RUSSIAN, base year, In Ak Bank SSSR, Otdel Khim  
Bank, No 6, Nov/Dec 1975, pp 1095-1099,  
CIA 94764 C, reel 3.

Consultants Bureau

Sci - Chemistry

37,645

Aug 1976

Macromolecular Compounds. Communication 83.  
Synthesis of Polyalkylencycloalkyls, by V. V.  
Borshak, G. S. Kolesnikov, 6 pp.

RUSSIAN, bino per, In Ak Nauk SSSR, Otdel Khim  
Nauk, No 6, Nov/Dec 1955, pp 1090-1094,  
CIA § 54276 C, reel 3.

Consultants Bureau

Sci - Chemistry

37,644

Aug 1956

Macromolecular Compounds. Communication 72. Formation  
of a Three-Dimensional Polymer by Reaction of Poly  
ethylenephenyl with Dihalocalkanes, by V. V. Korshak,  
G. S. Kolesnikov, T. A. Soboleva, 6 pp.

Full translation.

RUSSIAN, trans per, Iz Ak Nauk SSSR, Otdel Khim Nauk,  
No 2, Mar/Apr 1955, pp 365-371. CIA D 151364

Consultants Bureau

Scientific - Chemistry

25,937

Macromolecular Compounds. Communication 90.  
Polycondensation of 1,2-Dichloroethane With  
Tetralin, by G. S. Kolesnikov, V. V. Korshak, N. A.  
Andreyeva, A. I. Kitaygorodsky, 6 pp.

RUSSIAN, bimo per, Iz Ak Nauk SSSR, Otdel Khim  
Nauk, No 1, Jan/Feb 1956, pp 114-119. CIA 542767 C,  
reel 3.

Consultants Bureau

Sci - Chemistry

37,580

Aug 1956